"Restoration and Improvements of Balance roads of Chowdeshwari layout, Mariyappa layout, Muniraju layout, jyothinagara 1st main road, Deo Marvel layout, Sainagara phase-1 and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-13)"

Quality Control Reports

QC ABSTRACT

NAME OF WORK: "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು.
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days)	7 set /100-200 cum	156.6	14	14
10	RCC(M20)	Compressive Strength(7days)	57 set /2500-3000 cum	2670.99	57	57
11	GSB	SIEVE ANALYSIS	One Test		1	1
12	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-03-16-20** **Date: 21-02-22**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 18-02-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 19-02-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-03-16-20** **Date: 19-03-22**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 18-02-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 19-02-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-03-16-20** **Date: 21-02-22**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 18-02-22

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 18-02-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-03-16-20** **Date: 21-02-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-03-16-20** **Date: 21-02-22**
Project Name	:	"Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"
Agency	:	M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22
Date of Receipt	:	18-02-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-02-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-03-16-20** **Date: 21-02-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 21-02-22

Lab ID : **CP-2022-03-16-20**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 18-02-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 18-02-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	44	76	7.6	92.4	60-95	75-100	85-100	95-100
4	1.18 mm	215	291	29.1	70.9	30-70	55-90	75-100	90-100
5	600 micron	245	536	53.6	46.4	15-34	35-59	60-79	80-100
6	300 micron	201	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	178	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-03-16-20** **Date: 21-02-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	8.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2022-03-16-20**

Date: 21-02-22

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 18-02-22

Sample Type : INDUS

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 19-02-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	INDUS	Fe500	8	0.392	510	652	21.0%	Satisfactory	Satisfactory
2	INDUS	Fe500	10	0.615	538	642	20.0%	Satisfactory	Satisfactory
3	INDUS	Fe500	12	0.884	545	658	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2022-03-16-20** **Date: 23-02-22**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 22-02-22

Sample Type /Size : Precast Cover Slab (100 mm thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 19/02/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.62	100.69	1.125	4490	80.6	17.9	16.7	20.9
2	Cover Slab-2	75.43	100.56	1.132	4468	82.5	18.5	17.2	21.5
3	Cover Slab-3	75.93	100.45	1.115	4527	81.6	18.0	16.8	21.0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Date: 23-02-22

Lab ID : **CP-2022-03-16-20**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 18-02-22

Sample Type /Size : Precast Cover Slab (230 mm thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 19/02/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.25	230.23	2.782	17727	460.5	26.0	24.2	30.2
2	Cover Slab-2	150.32	230.54	2.786	17744	485.5	27.4	25.4	31.8
3	Cover Slab-3	150.15	230.36	2.785	17703	468.5	26.5	24.6	30.8

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2022-03-16-20** **Date: 26-02-22**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 22-02-22

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 22/02/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.05	165.48	2.854	7860	142.1	18.1	18.1	22.6
2	B	100.02	165.63	2.763	7856	145.2	18.5	18.5	23.1
3	C	100.03	165.29	2.856	7857	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 04/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Kempanahalli Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	150.38 X 150.76 X 151.21	22671	8.247	418.8	18.5	18.4
2	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	152.00 X 151.82 X 151.56	23076	8.127	416.1	18.0	
3	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	150.81 X 149.35 X 151.11	22523	8.848	421.5	18.7	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 04/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Kempanahalli Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	150.81 X 151.76 X 150.53	22887	8.446	414.4	18.1	18.2
2	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	151.85 X 149.21 X 151.21	22658	8.104	419.7	18.5	
3	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	151.69 X 151.26 X 151.60	22945	8.312	413.4	18.0	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 04/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Kempanahalli Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	151.24 X 150.63 X 149.83	22780	8.313	420.5	18.5	18.4
2	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	150.52 X 150.25 X 149.25	22616	8.727	417.2	18.4	
3	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	151.18 X 149.41 X 150.48	22589	8.851	414.4	18.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 04/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Kempanahalli Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	151.66 X 152.00 X 149.08	23053	8.211	425.4	18.5	18.4
2	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	151.92 X 150.00 X 150.19	22788	8.607	421.7	18.5	
3	Drain Bottom Raft - Kempanahalli Road	M20	25/02/2022	04/03/2022	149.79 X 149.60 X 150.20	22409	8.477	410.0	18.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

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Lab ID : CP-2022-03-16-20

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Date: 05/03/2022

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Attur Main Road 1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	150.38 X 150.90 X 151.13	22692	8.892	419.6	18.5	18.6
2	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	149.95 X 151.30 X 150.00	22687	8.925	419.4	18.5	
3	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	151.02 X 150.43 X 149.60	22719	8.168	428.3	18.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 05/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Attur Main Road 1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	151.77 X 150.03 X 151.91	22770	8.927	428.4	18.8	18.6
2	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	151.31 X 151.07 X 149.66	22859	8.452	414.4	18.1	
3	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	151.13 X 151.55 X 150.85	22904	8.850	434.7	19.0	

* The results obtained are satisfactory as per standard requirements.

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Lab ID : **CP-2022-03-16-20**

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Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Attur Main Road 1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	149.03 X 149.29 X 150.90	22248	8.821	418.3	18.8	18.6
2	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	150.63 X 151.77 X 149.87	22862	8.357	426.2	18.6	
3	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	150.30 X 151.12 X 151.25	22712	8.441	418.8	18.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 05/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Attur Main Road 1

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	150.00 X 149.83 X 150.87	22474	8.671	424.9	18.9	18.6
2	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	150.17 X 150.22 X 151.07	22559	8.513	411.4	18.2	
3	Drain Bottom Raft - Attur Main Road 1	M20	26/02/2022	05/03/2022	151.13 X 151.51 X 149.95	22899	8.656	428.8	18.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-16-20 **Date: 07/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Bottom Raft - Duo Marvel Layot 3rd Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	149.22 X 151.03 X 151.67	22538	8.646	414.4	18.4	18.5
2	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	150.77 X 150.14 X 150.21	22638	8.553	413.9	18.3	
3	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	151.80 X 150.68 X 149.16	22873	8.857	431.0	18.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 07/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - I and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Bottom Raft - Duo Marvel Layot 3rd Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	150.75 X 150.45 X 150.08	22680	8.243	417.8	18.4	18.6
2	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	151.06 X 151.94 X 149.69	22952	8.916	433.0	18.9	
3	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	151.78 X 150.17 X 150.51	22793	8.569	422.1	18.5	

* The results obtained are satisfactory as per standard requirements.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-16-20

Date: 07/03/2022

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Bottom Raft - Duo Marvel Layot 3rd Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	150.73 X 151.48 X 150.26	22832	8.656	425.9	18.7	18.7
2	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	150.98 X 151.40 X 150.13	22859	8.363	431.7	18.9	
3	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	149.01 X 150.55 X 149.64	22434	8.355	418.2	18.6	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 07/03/2022**

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Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Bottom Raft - Duo Marvel Layot 3rd Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	150.47 X 151.43 X 151.29	22786	8.766	430.5	18.9	18.8
2	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	151.74 X 151.57 X 149.79	22998	8.300	425.7	18.5	
3	Drain Bottom Raft - Duo Marvel Layot 3rd Main Road	M20	27/02/2022	06/03/2022	151.63 X 150.96 X 150.47	22890	8.913	434.0	19.0	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-16-20** **Date: 08/03/2022**

Project Name : "Restoration and Improvements of Balance roads of Chowdeshwari Layout, Mariyappa Layout, Muniraju Layout, Jyothinagara 1st Main Road, Deo Marvel Layout, Sainagara Phase - 1 and Surrounding Areas in Ward No - 03 of Yelahanka New town Sub division (PACKAGE NO. - 13)"

Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Bottom Raft - Duo Marvel Layot 5th Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft - Duo Marvel Layot 5th Main Road	M20	28/02/2022	07/03/2022	150.18 X 149.21 X 150.70	22407	8.958	416.0	18.6	18.4
2	Drain Bottom Raft - Duo Marvel Layot 5th Main Road	M20	28/02/2022	07/03/2022	149.76 X 150.29 X 149.41	22508	8.395	405.3	18.0	
3	Drain Bottom Raft - Duo Marvel Layot 5th Main Road	M20	28/02/2022	07/03/2022	150.93 X 149.57 X 149.93	22574	8.878	421.6	18.7	

* The results obtained are satisfactory as per standard requirements.

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Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Bottom Raft - Duo Marvel Layot 5th Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Duo Marvel Layot 5th Main Road	M20	28/02/2022	07/03/2022	150.21 X 150.12 X 150.83	22550	8.899	410.7	18.2	18.3
2	Drain Bottom Raft - Duo Marvel Layot 5th Main Road	M20	28/02/2022	07/03/2022	149.61 X 150.22 X 151.67	22474	8.434	408.0	18.2	
3	Drain Bottom Raft - Duo Marvel Layot 5th Main Road	M20	28/02/2022	07/03/2022	151.88 X 149.12 X 151.44	22649	8.731	418.0	18.5	

* The results obtained are satisfactory as per standard requirements.

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Agency : M/S SATHYA CONSTRUCTIONS, Prop. Rajeshwaran Satheesh, No: 600, DOWN BAZAR ROAD, YELAHANKA, BANGALORE - 560064

Customer's Reference : BBMP/EE/YNK.D/EPMT - 08/W.O/117/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Bottom Raft - Kempanahalli Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft - Kempanahalli Road	M20	28/02/2022	07/03/2022	150.97 X 151.19 X 149.46	22825	8.264	418.2	18.3	18.3
2	Drain Bottom Raft - Kempanahalli Road	M20	28/02/2022	07/03/2022	149.50 X 151.59 X 150.71	22663	9.064	412.7	18.2	
3	Drain Bottom Raft - Kempanahalli Road	M20	28/02/2022	07/03/2022	149.02 X 150.07 X 151.85	22363	8.714	408.0	18.2	

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